

-3-

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) A film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and at least two ~~a~~-copolymerized hydrophobic monoethylenically unsaturated alkyl (meth)acrylic monomers; wherein one of the hydrophobic monomers includes an alkyl group of 1 to 4 carbon atoms and one of the hydrophobic monomers includes an alkyl group of 6 to 22 carbon atoms; wherein the amine equivalent weight of the polymer is at least about 300 grams polymer per equivalent of amine group;
water; and
a surfactant;
wherein the composition possesses at least one of the following characteristics:
~~the polymer is present in an amount greater than the surfactant,~~
~~or~~
~~a dry film of the composition is substantive.~~
2. (original) The composition of claim 1 further comprising an active agent.
3. (original) The composition of claim 2 wherein the active agent comprises an antimicrobial agent, a pharmaceutical, or a cosmetic agent.
4. (original) The composition of claim 3 wherein the active agent comprises an iodophor, iodine, chlorhexidine, chlorhexidine salts, fatty acid monoesters of glycerin and propylene glycol, chlorinated phenols, triclosan, octenidine, or mixtures thereof.
5. (original) The composition of claim 4 wherein the active agent is iodine or an iodophor.

-4-

6. (original) The composition of claim 2 wherein the ratio of vinyl polymer to active agent is about 0.25:1 to about 5:1.
7. (original) The composition of claim 1 wherein the amine equivalent weight of the polymer is no greater than about 3000 grams polymer per equivalent of amine group.
8. (original) The composition of claim 1 wherein the surfactant is a nonionic surfactant.
9. (original) The composition of claim 8 wherein the nonionic surfactant has an HLB of at least about 14.
10. (original) The composition of claim 9 wherein the nonionic surfactant has an HLB or no greater than about 19.
11. (original) The composition of claim 10 further comprising a surfactant having an HLB of less than about 14 or greater than about 19.
12. (original) The composition of claim 8 further comprising an anionic or amphoteric surfactant.
13. (original) The composition of claim 12 where the anionic or amphoteric surfactant is selected from the group consisting of sulfates, sulfonates, phosphates, phosphonates, ammonium sulfonate amphoteric, and mixtures thereof.
14. (original) The composition of claim 1 wherein the surfactant is an amine oxide surfactant.
15. (original) The composition of claim 1 wherein the surfactant is an anionic surfactant.

-5-

16. (original) The composition of claim 1 further comprising a hydroxycarboxylic acid buffer.

17. (original) The composition of claim 16 wherein the hydroxycarboxylic acid buffer comprises an alpha-hydroxycarboxylic acid.

18. (original) The composition of claim 17 wherein the hydroxycarboxylic acid buffer comprises lactic acid, malic acid, citric acid, or a mixture thereof.

19. (original) The composition of claim 1 wherein the composition has a Brookfield viscosity of no greater than about 1000 cps.

20. (original) The composition of claim 1 wherein the vinyl polymer has a glass transition temperature of at least about 30°C.

21. (original) The composition of claim 20 wherein the vinyl polymer has a glass transition temperature of at least about 50°C.

22. (original) The composition of claim 1 further comprising a polymer having a higher Tg than that of the vinyl polymer having amine groups.

23. (original) The composition of claim 22 wherein the polymer having a higher Tg than that of the vinyl polymer having amine groups is polyvinyl alcohol.

24. (original) The composition of claim 1 wherein the composition is stable.

25. (original) The composition of claim 1 having a flashpoint of greater than about 60°C measured according to test method ASTM D3278-96.

26. (original) The composition of claim 1 wherein the amine groups are selected from the group consisting of quaternary ammonium groups, protonated tertiary amine groups, amine oxide groups, and combinations thereof.

-6-

27. (original) The composition of claim 1 having a dry time of no greater than about 2 minutes.

28. (original) The composition of claim 1 wherein the surfactant is a silicone copolyol surfactant.

29. (original) The composition of claim 1 wherein a dry film of the composition is substantially nontacky.

30. (original) The composition of claim 1 further comprising a (C1-C4)alcohol.

31. (currently amended) A film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and a copolymerized hydrophobic monomer; wherein the amine equivalent weight of the polymer is about 300 grams to about 3000 grams polymer per equivalent of amine group;

an active agent present in an amount of at least about 0.25% by weight of the total composition;

water; and

a surfactant;

wherein the composition possesses at least one of the following characteristics:

the polymer is present in an amount greater than the surfactant;

or

a dry film of the composition is substantive

the composition is substantially free of volatile organic solvents.

32. (original) The composition of claim 31 wherein the active agent is an antimicrobial agent.

33. (original) The composition of claim 31 wherein the composition possesses two or more of the following characteristics:

the polymer is present in an amount greater than the surfactant;

-7-

the polymer to active agent weight ratio is at least about 0.25:1; or
a dry film of the composition is substantive.

34. (original) The composition of claim 33 wherein the composition possesses all of the following characteristics:

the polymer is present in an amount greater than the surfactant;
the polymer to active agent weight ratio is at least about 0.25:1; and
a dry film of the composition is substantive.

35. (original) The composition of claim 31 wherein the vinyl polymer comprises dimethylamine oxide methacrylate, isobutyl methacrylate, methyl methacrylate, and a (C12-18)alkyl methacrylate.

36. (original) The compositions of claim 31 wherein the vinyl polymer comprises trimethylaminioethyl acrylate chloride, butyl acrylate, methyl methacrylate, and a (C12-18)alkyl methacrylate.

37. (currently amended) A film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer prepared from monomers comprising:

an amine group-containing monomer;
about 1 wt-% to about 30 wt-% of a (C6-C22)alkyl (meth)acrylic monomer;
and
about 15 wt-% to about 75 wt-% of a (C1-C4)alkyl (meth)acrylic monomer;
wherein the amine equivalent weight of the polymer is about 300 to
about 3000 grams polymer per equivalent of amine group;
a surfactant;
water; and
an active agent;
wherein a dry film of the composition is substantive.

38. (original) The composition of claim 37 wherein the active agent comprises an antimicrobial agent, a pharmaceutical, or a cosmetic agent.

-8-

39. (original) The composition of claim 37 wherein the active agent comprises an iodophor, iodine, chlorhexidine, chlorhexidine salts, fatty acid monoesters of glycerin and propylene glycol, chlorinated phenols, triclosan, octenidine, or mixtures thereof.

40. (original) The composition of claim 39 wherein the active agent is iodine or an iodophor.

41. (original) The composition of claim 37 wherein the amine equivalent weight of the polymer is no greater than about 1500 grams polymer per equivalent of amine group.

42. (original) The composition of claim 37 further comprising a surfactant.

43. (original) The composition of claim 42 wherein the surfactant is a nonionic, anionic, or amphoteric surfactant.

44. (original) The composition of claim 43 where the anionic or amphoteric surfactant is selected from the group consisting of sulfates, sulfonates, phosphates, phosphonates, ammonium sulfonate amphoteric, and mixtures thereof.

45. (original) The composition of claim 37 wherein the surfactant is an amine oxide surfactant.

46. (original) The composition of claim 37 wherein the surfactant is an anionic surfactant.

47. (original) The composition of claim 37 further comprising a hydroxycarboxylic acid buffer.

48. (original) The composition of claim 37 wherein the composition is stable.

-9-

49. (original) The composition of claim 37 wherein the amine groups are selected from the group consisting of quaternary ammonium groups, protonated tertiary amine groups, amine oxide groups, and combinations thereof.

50. - 60. (cancelled)

50 61. (new) The composition of claim 31 wherein the active agent is iodine or an iodophor.

51 62. (new) The composition of claim 61 wherein the active agent is povidone iodine.

52 63. (new) A film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and a copolymerized hydrophobic monomer;
wherein the amine equivalent weight of the polymer is at least about 300 grams polymer per equivalent of amine group;
water;
a surfactant; and
a buffer.

53 64. (new) The composition of claim 62 which has a pH of about 2 to about 6.

54 65. (new) The composition of claim 64 which has a pH of about 3 to about 5.

55 66. (new) The composition of claim 65 further comprising an active agent.

56 67. (new) The composition of claim 66 wherein the active agent is an antimicrobial agent.

57 68. (new) The composition of claim 67 wherein the antimicrobial agent is an iodophore.

58 69. (new) The composition of claim 68 wherein the iodophore is povidone iodine.

-10-

59

70. (new) The composition of claim 63 wherein the buffer is a hydroxycarboxylic acid.

52

60

(new) A film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and a copolymerized hydrophobic monomer;
wherein the amine equivalent weight of the polymer is at least about 300 grams polymer per equivalent of amine group;
water; and
a surfactant present in an amount of no greater than about 10% by weight based on the total weight of the composition;
wherein a medical adhesive product adheres to a dry film of the composition on skin.

60

61

71. (new) The composition of claim 71 wherein the surfactant is present in an amount of no greater than about 7% by weight based on the total weight of the composition.

62

72. (new) The composition of claim 72 wherein the surfactant is present in an amount of no greater than about 5% by weight based on the total weight of the composition.

61

63

73. (new) A dry film on skin formed from a film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and a copolymerized hydrophobic monomer;
wherein the amine equivalent weight of the polymer is at least about 300 grams polymer per equivalent of amine group;
a surfactant.

64

74. (new) A film-forming composition comprising:
a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and a copolymerized hydrophobic monomer;

-11-

wherein the amine equivalent weight of the polymer is at least about 300 grams polymer per equivalent of amine group;

water; and

a surfactant;

wherein a dry film of the composition on skin can be removed with water soaked gauze.

65

76. (new) A film-forming composition comprising;

a water-soluble or water-dispersible vinyl polymer comprising amine group-containing side-chains and a copolymerized hydrophobic monomer; wherein the amine equivalent weight of the polymer is at least about 300 grams polymer per equivalent of amine group;

water; and

a surfactant selected from the group consisting of alkyl polyglucosides, ammonium sulfonate amphotetics, alkyl phosphates, alkylether phosphates, aralkylphosphates, and aralkylether phosphates.

66

77. (new) The composition of claim 1 wherein the surfactant is an amphoteric surfactant.

67

78. (new) The composition of claim 1 wherein the polymer is present in an amount greater than the surfactant.

68

79. (new) The composition of claim 78 wherein the composition includes an active agent and the polymer to active agent weight ratio is at least about 0.25:1.

69

80. (new) The composition of claim 31 wherein the composition possesses at least one of the following characteristics:

the polymer is present in an amount greater than the surfactant; or
a dry film of the composition is substantive.